AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in this application.

Listing of Claims:

1. (Currently Amended) A process for preparing a crystalline silicoaluminophosphate molecular sieve of the AEL or CHA framework type, which process comprises; forming a reaction mixture comprising a source of alumina, a source of phosphate, a source of silica and at least one organic template which comprises one or more tertiary ~~dialkylbutyl~~amines of the general formula (I):

$$(R)(R')(N)\text{-}(C_4H_9) \quad (I)$$

wherein R and R', which may be the same or different groups, are substituted or un-substituted aliphatic or cycloaliphatic groups, except butyl groups ~~wherein the alkyl groups are not butyl~~, inducing crystallization of crystalline molecular sieve, and recovering the crystalline molecular sieve.

2. (Original) A process as claimed in claim 1, further comprising the step of calcining the crystalline molecular sieve.

3. (Currently Amended) A process as claimed in claim 1 or claim 2, wherein the one or more tertiary ~~dialkylbutyl~~amines have the general formula (I):

$$(R)(R')N\text{-}(C_4H_9) \quad (I)$$

wherein R and R', ~~which may be the same or different groups, are substituted or un-substituted aliphatic or cycloaliphatic groups, except butyl groups~~ contain from 1 to 3 or 5 to 12 carbon atoms.

4. (Original) A process as claimed in claim 3, wherein R and R' are linear alkyl groups, but not butyl groups.

5. (Original) A process as claimed in claim 3, wherein R and R' are cycloaliphatic groups.

6. (Original) A process as claimed in claim 3, wherein R and R' are linear or branched alcohol groups, or linear or branched amine-containing groups.

7. (Currently Amended) A process as claimed in claim 3, wherein R and R' contain ~~an~~ a branched alkyl group ~~having from 1 to 3 or 5 to 12 carbon atoms~~ but not butyl groups.

8. (Original) A process as claimed in claim 3, wherein R and R' contain an alkyl group having from 1 to 3 or 5 or 6 carbon atoms.

9. (Original) A process as claimed in claim 3, wherein R and R' contain an alkyl group having from 1 to 3 or 5 carbon atoms.

10. (Original) A process as claimed in claim 3, wherein R and R' contain an alkyl group having from 1 to 3 carbon atoms.

11. (Original) A process as claimed in claim 3, wherein R and R' are independently one of the following alkyl moieties: methyl, ethyl, n-propyl, iso-propyl, n-pentyl, iso-pentyl, n-hexyl, iso-hexyl, heptyl, iso-heptyl, n-octyl, iso-octyl, n-decyl, iso-decyl, n-undecyl, iso-undecyl, n-dodecyl and iso-dodecyl.

12. (Original) A process as claimed in claim 11, wherein R and R' are independently methyl, ethyl and propyl, most preferably methyl.

13. (Original) A process as claimed in claim 3, wherein the $-C_4H_9$ group in formula (I) is n-butyl.

14. (Original) A process according to claim 1 , wherein the process is for the manufacture of a silicoaluminophosphate molecular sieve of framework type AEL.

15. (Original) The process of claim 14, wherein the molar ratio of organic template to Al_2O_3 in the synthesis mixture is less than 3.

16. (Original) A process according to claim 1, wherein the process is for the manufacture of a silicoaluminophosphate molecular sieve of framework type CHA.

17. (Original) The process of claim 16, wherein the molar ratio of organic template to Al_2O_3 in the synthesis mixture is 2 or greater.

18. (Original) The process of claim 16, wherein the molar ratio of organic template to Al_2O_3 in the synthesis mixture is 3 or greater.

19. (Currently Amended) A process according to claim 1, wherein ~~the process is for the manufacture of a silicoaluminophosphate molecular sieve of framework type CHA or AEL and wherein~~ the molar ratio of P_2O_5/Al_2O_3 ratio in the synthesis mixture is within the range 0.8 to 1.3.

20. (Currently Amended) A silicoaluminophosphate molecular sieve, substantially of CHA framework type, comprising within its intra-crystalline structure at least one template which contains one or more tertiary ~~dialkylbutylamines, wherein the alkyl groups are not butyl~~ amines having the general formula (I):

$$(R)(R')N\text{-}(C_4H_9) \quad (I)$$

wherein R and R', which may be the same or different groups, are substituted or un-substituted cycloaliphatic groups, except butyl groups.

21. (Currently Amended) The silicoaluminophosphate molecular sieve of claim 20 wherein the ~~one or more~~ tertiary ~~dialkylbutyl~~amines is N,N-dimethylbutylamine.

22. (Original) The silicoaluminophosphate molecular sieve of claim 21, wherein the molecular sieve is SAPO-34.

23. (Currently Amended) A silicoaluminophosphate molecular sieve, substantially of AEL framework type, comprising within its intra-crystalline structure at least one template which contains one or more tertiary ~~dialkylbutylamines, wherein the alkyl groups are not butyl~~ amines having the general formula (I):

$$(R)(R')N\text{-}(C_4H_9) \quad (I)$$

wherein R and R', which may be the same or different groups, are substituted or un-substituted cycloaliphatic groups, except butyl groups.

24. (Currently Amended) The silicoaluminophosphate molecular sieve of claim 23, wherein the ~~one or more~~ tertiary ~~dialkylbutyl~~amines is N,N-dimethylbutylamine.

25. (Original) The silicoaluminophosphate molecular sieve of claim 24, wherein the molecular sieve is SAPO-11.

26. (Original) The silicoaluminophosphate molecular sieve of claim 23, having a platelet morphology.

27. (Original) A method for the manufacture of a formulated catalyst composition, which method comprises forming a mixture comprising at least one silicoaluminophosphate molecular sieve according to claim 20 with at least one formulating agent, to form a catalyst composition.

28. (Original) A method for the manufacture of a formulated catalyst composition, which method comprises forming a mixture comprising at least one silicoaluminophosphate molecular sieve according to claim 23 with at least one formulating agent, to form a catalyst composition.

29. (Original) A formulated molecular sieve composition comprising at least one silicoaluminophosphate molecular sieve according to claim 20 in admixture with at least one formulating agent.

30. (Original) A formulated molecular sieve composition comprising at least one silicoaluminophosphate molecular sieve according to claim 23 in admixture with at least one formulating agent.